

ORIGINAL CLAIMS

MULTISTANDARD VIDEO DECODER AND DECOMPRESSION SYSTEM FOR  
PROCESSING ENCODED BIT STREAMS INCLUDING STORING DATA AND  
METHODS RELATING THERETO

USSN: 09/771,062

Status: Pending

Our Reference: 94100414(EP)USC1X1C1D3 PDDD

Total Claims: 7

- 1        1.     A method of storing data, comprising:
  - 2            receiving a sequence of data words of a first predetermined width and different
  - 3            respective formats;
  - 4            splitting the data words of the received sequence to form new data words of a
  - 5            new sequence, the new data words having a second predetermined width;
  - 6            packing the consecutive new data words consecutively in a token buffer of a
  - 7            second width without holes between the packed new data words; and
  - 8            unpacking the data words to reproduce the new sequence of new data words.
- 1        2.     The method of claim 1, further comprising:
  - 2            writing a block of data from the token buffer to a random access memory device
  - 3            configured to store words of the second width.
- 1        3.     The method of claim 1, further comprising:
  - 2            expanding out run length code in the unpacked words.
- 1        4.     An inverse modeler, comprising:
  - 2            a data unpacker to unpack data words received from an input terminal to a
  - 3            different length format;
  - 4            a data expander coupled to the data unpacker; and
  - 5            a data padder to pad data tokens received from the expander.

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1        5.     The inverse modeler of claim 4, wherein the data expander expands out  
2     run length codes into runs of zeros followed by a level in the packed data.

1        6.     The inverse modeler of claim 5, wherein the data padder pads the last  
2     word of the expanded tokens.

1        7.     The inverse modeler of claim 4, wherein the data unpacker deletes data  
2     between a flush signal and a block end signal.

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